

North Carolina  
Benchmarking Project

**Fire Services  
Best Practices Session**

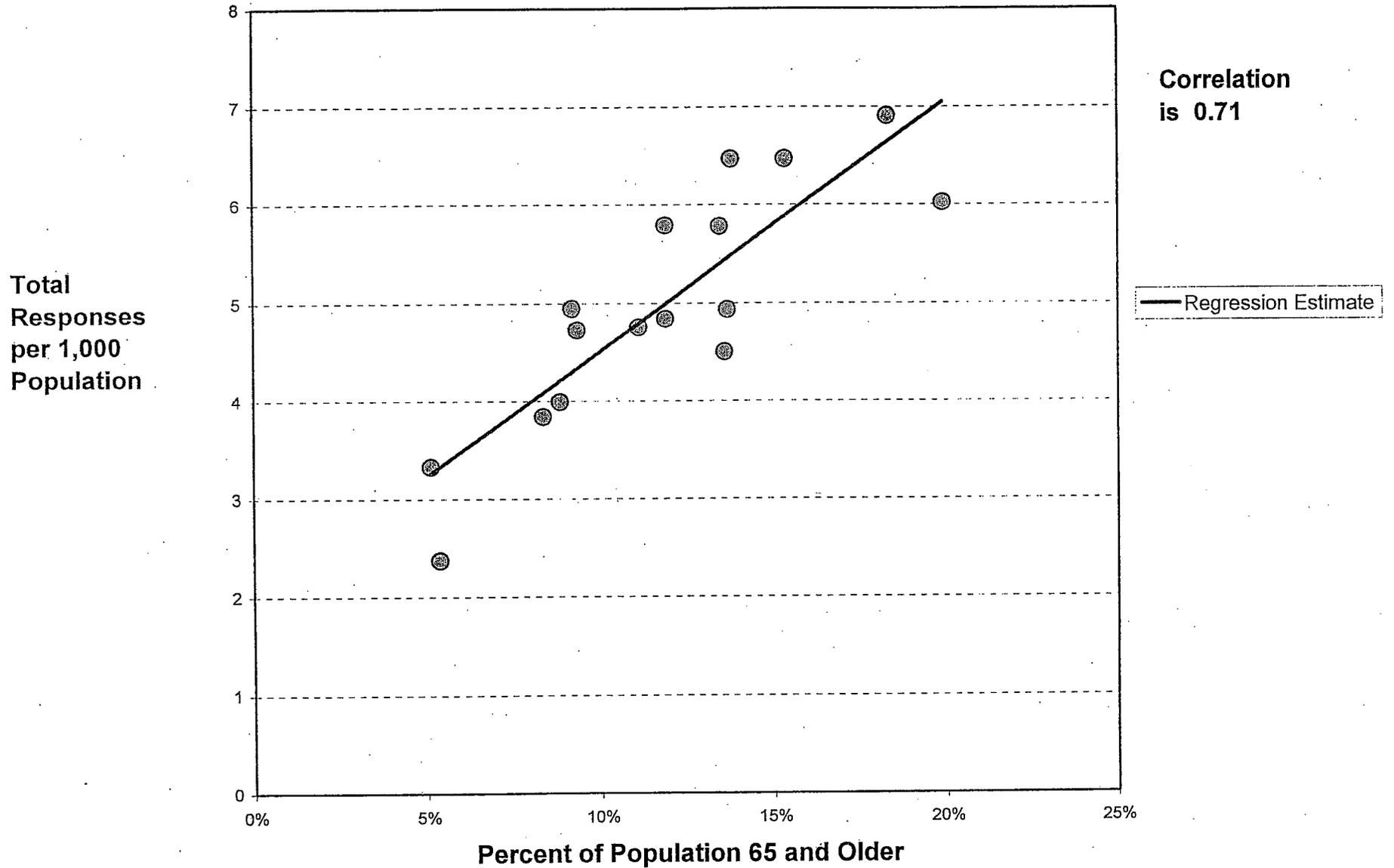
October 13, 2006

**UNC School of Government**

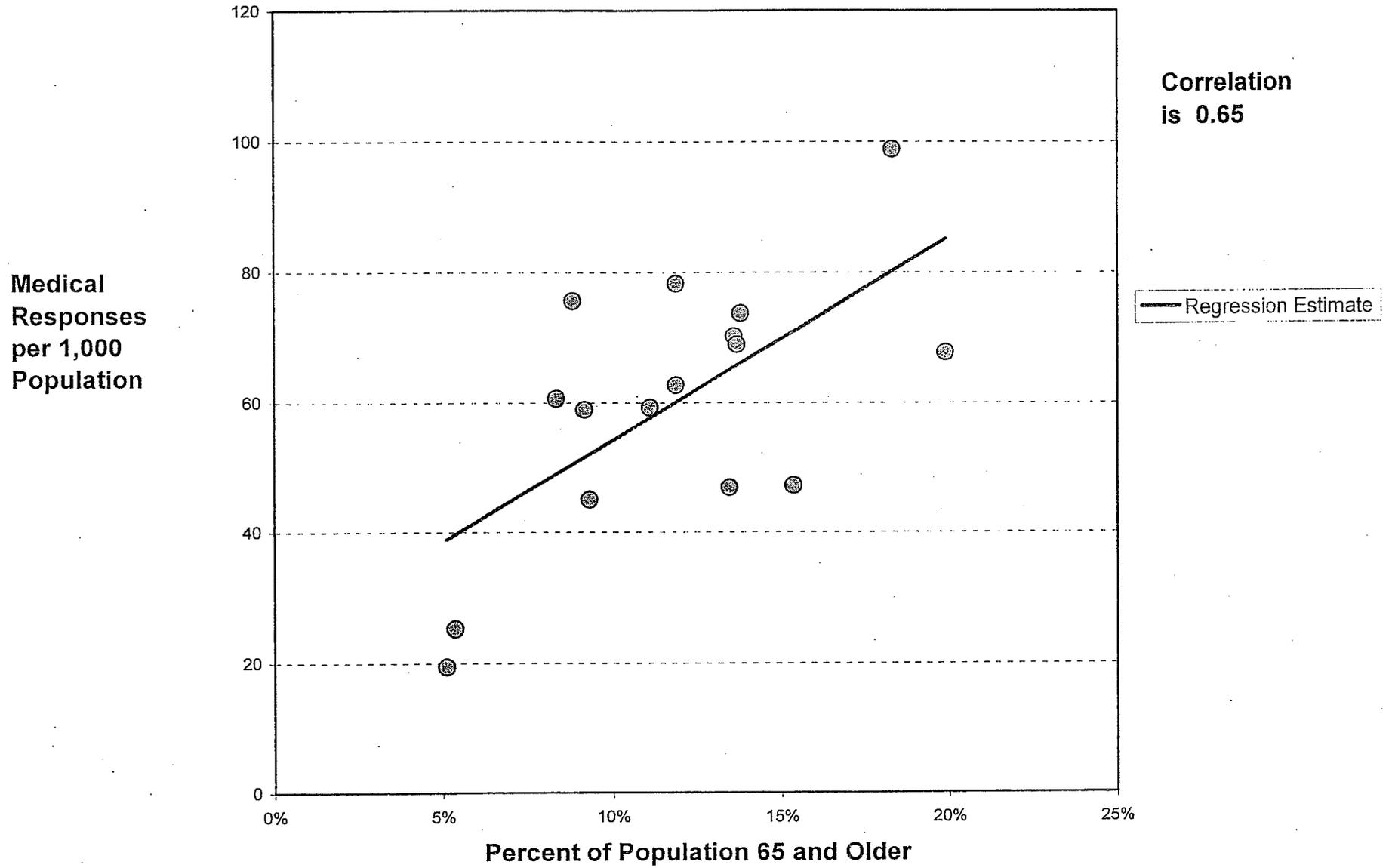
# ***A few terms we will use today***

- Average (mean)
- Interquartile Range (the “middle half”)
- Scatterplot
- Regression Line
- Correlation (+1.0 is the strongest positive relationship; 0.0 is no relationship; -1.0 is the strongest negative relationship).

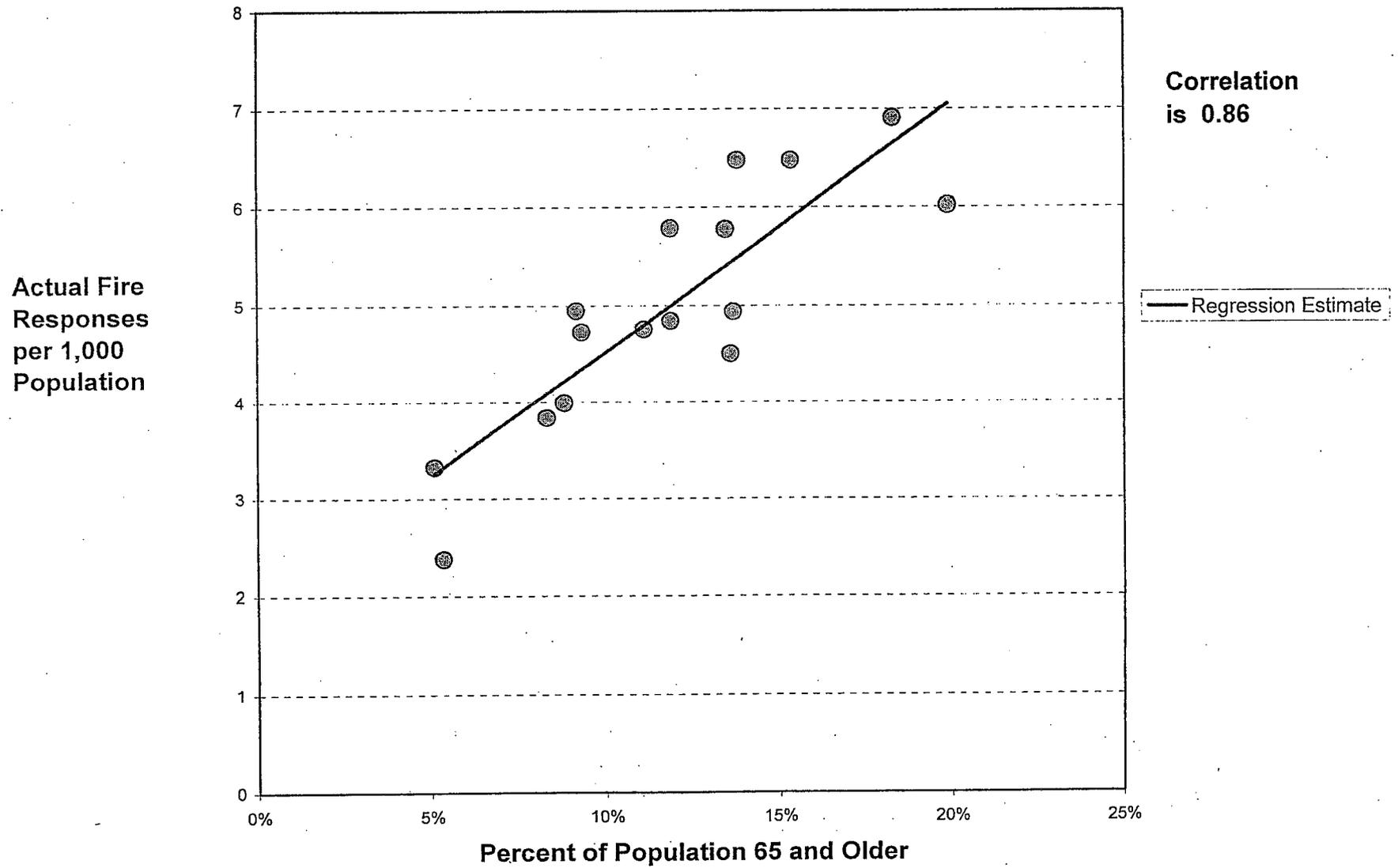
# Elderly Population and Total Responses per 1,000 Population



# Elderly Population and Medical Responses per 1,000 Population



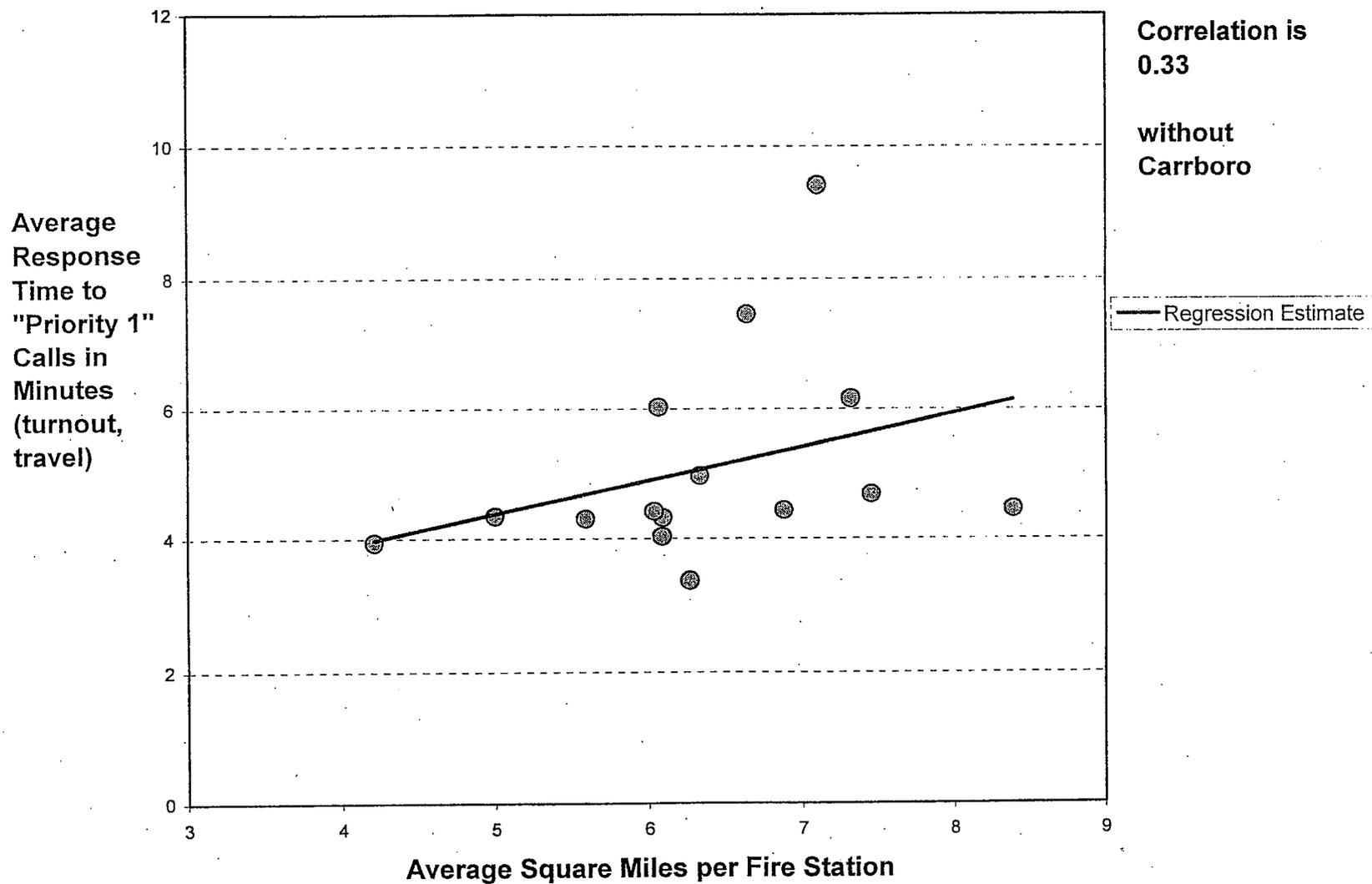
# Elderly Population and Actual Fires per 1,000 Population



# **Fire Service Resources**

- Stations

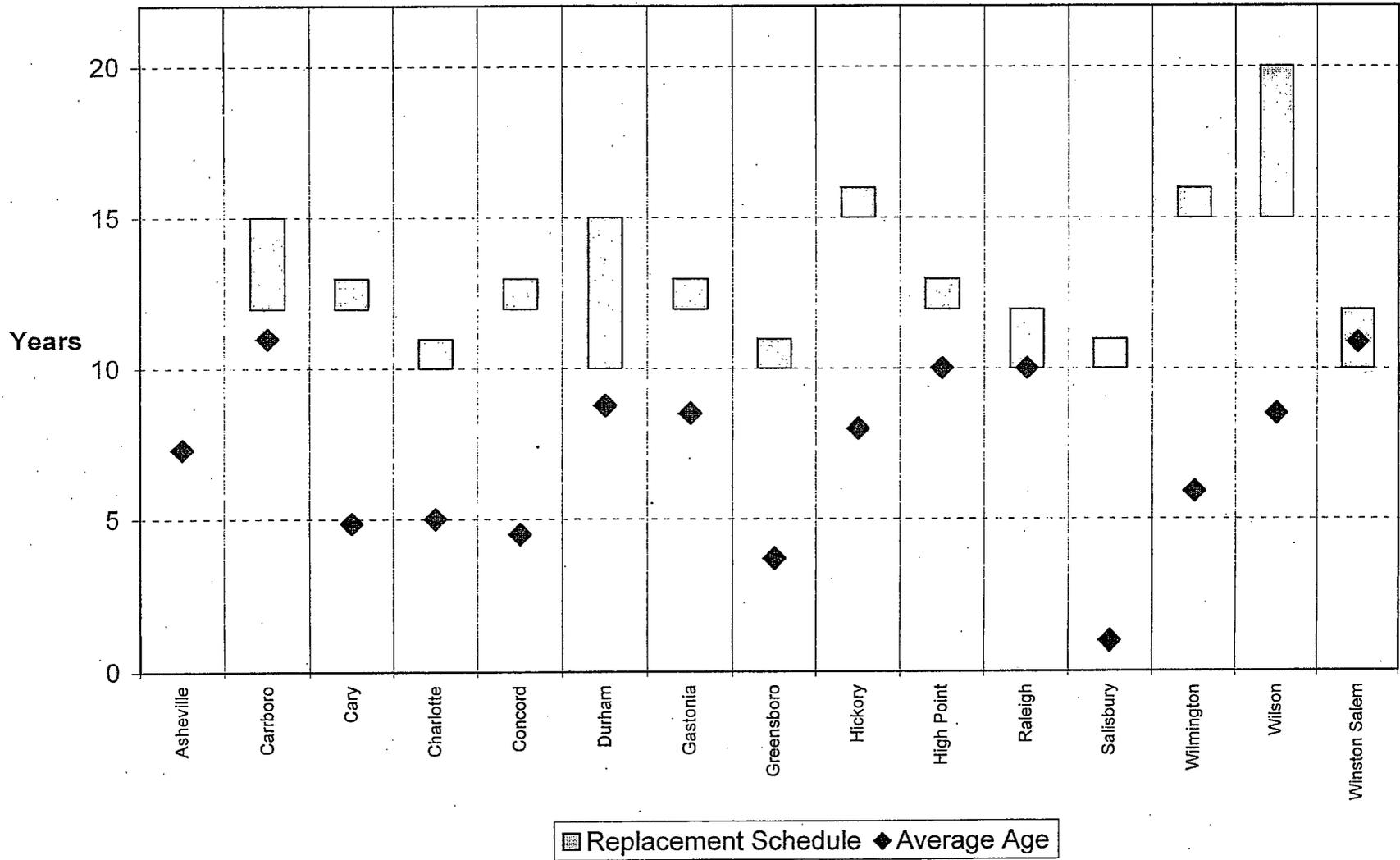
# Square Miles per Fire Stations and Response Time



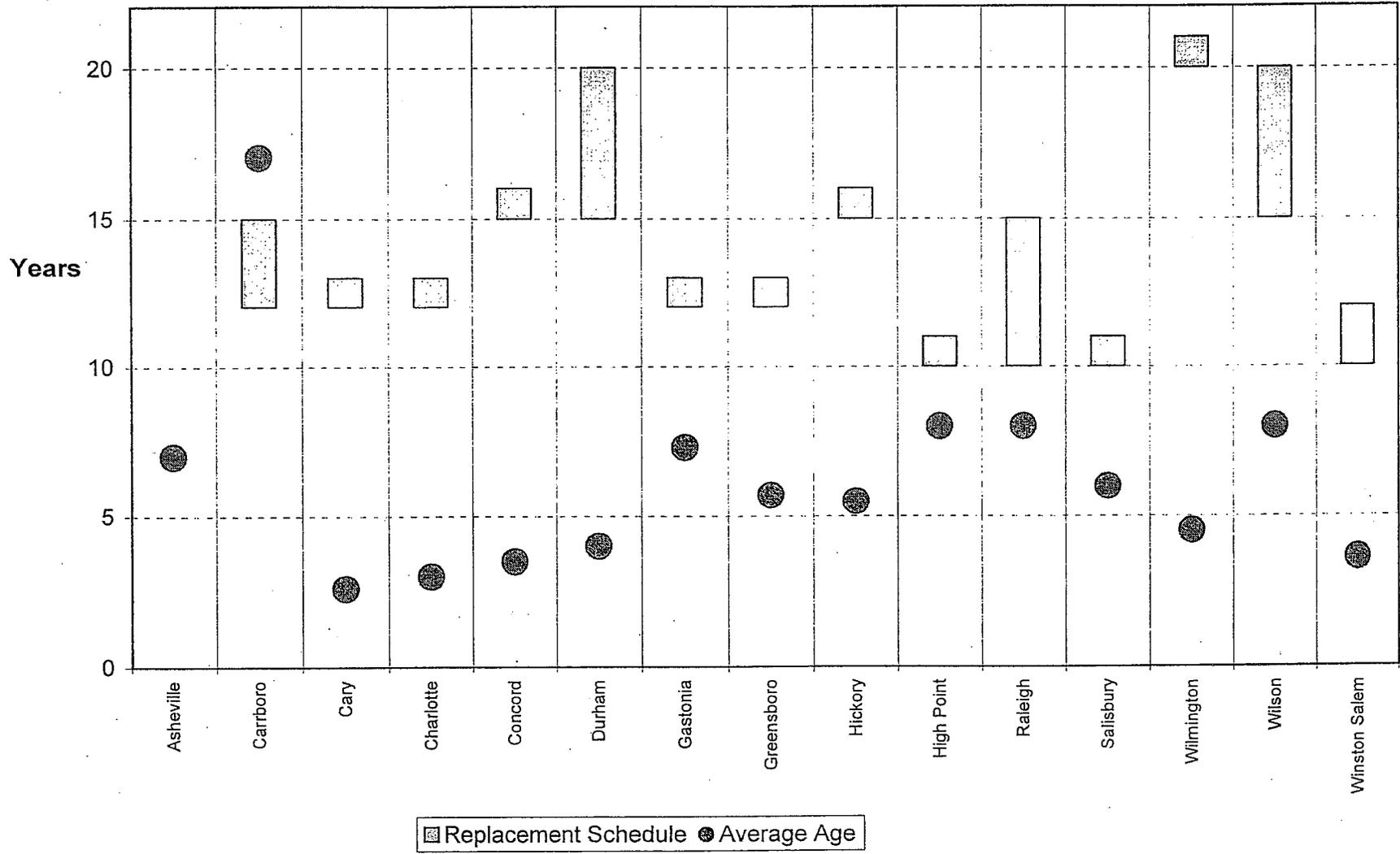
# **Fire Service Resources**

- Equipment

## Average Age and Replacement Schedule for Pumper Fire Trucks



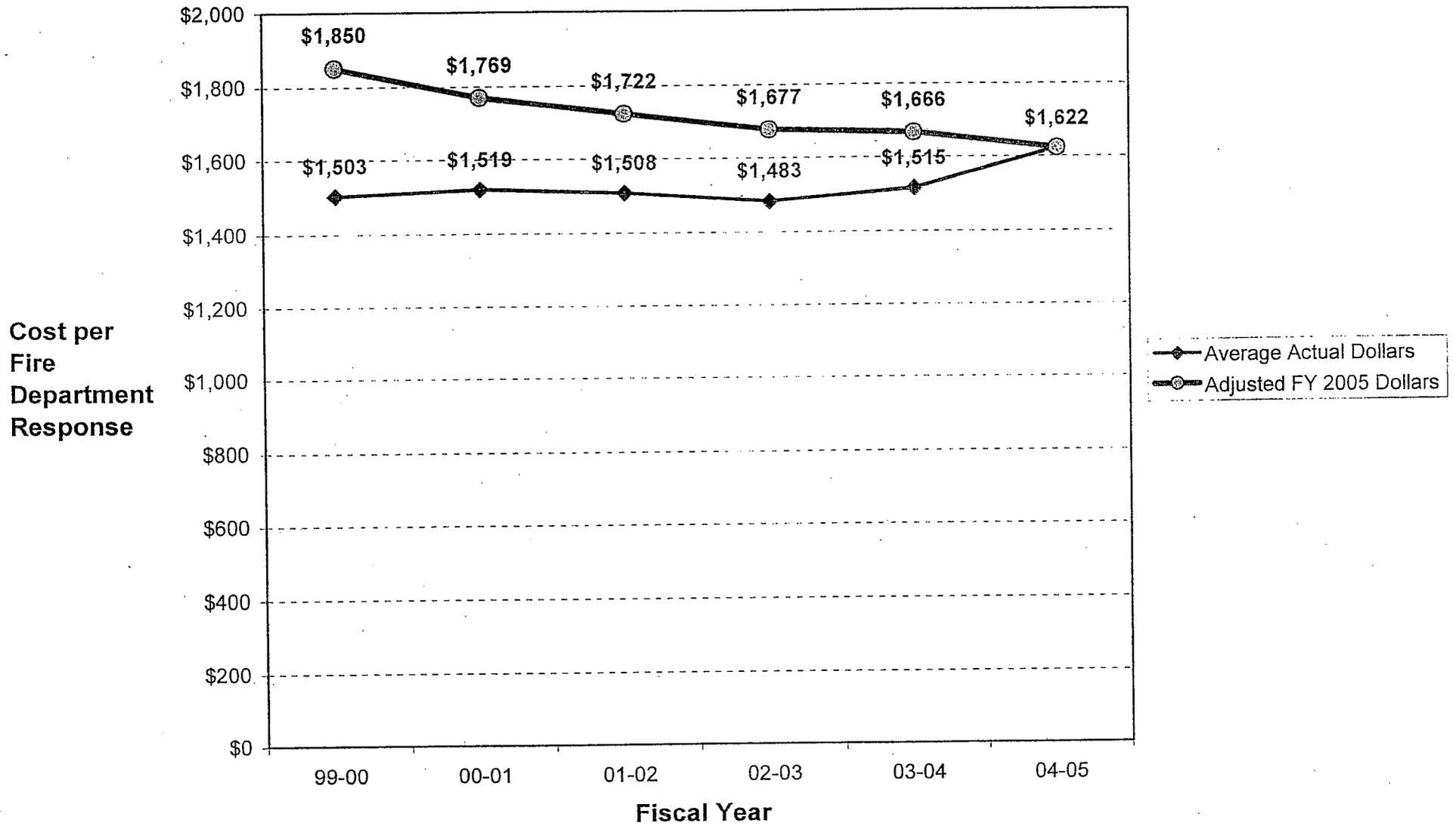
## Average Age and Replacement Schedule for Aerial Fire Trucks



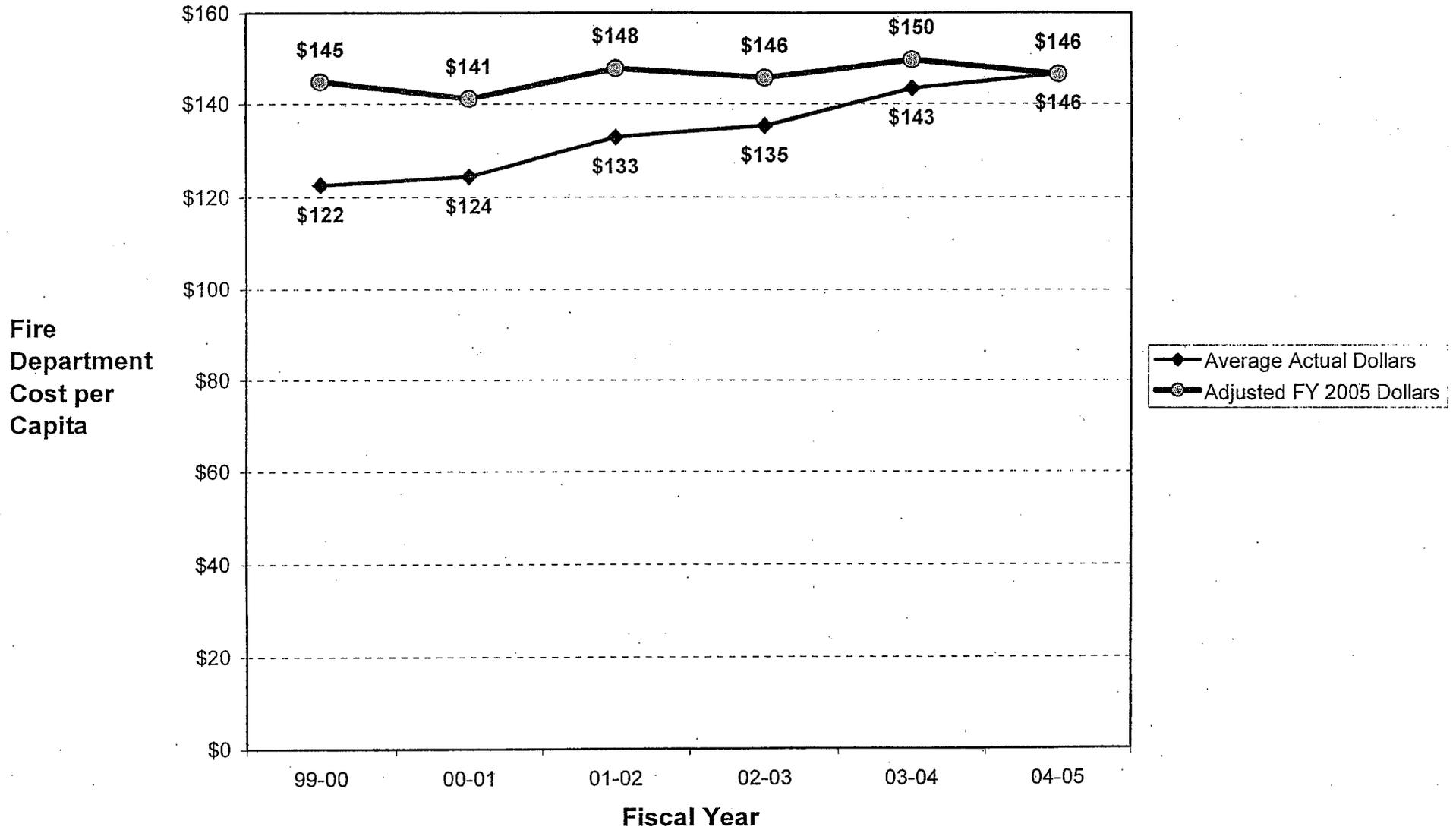
# **Fire Service Resources**

- Expenditures

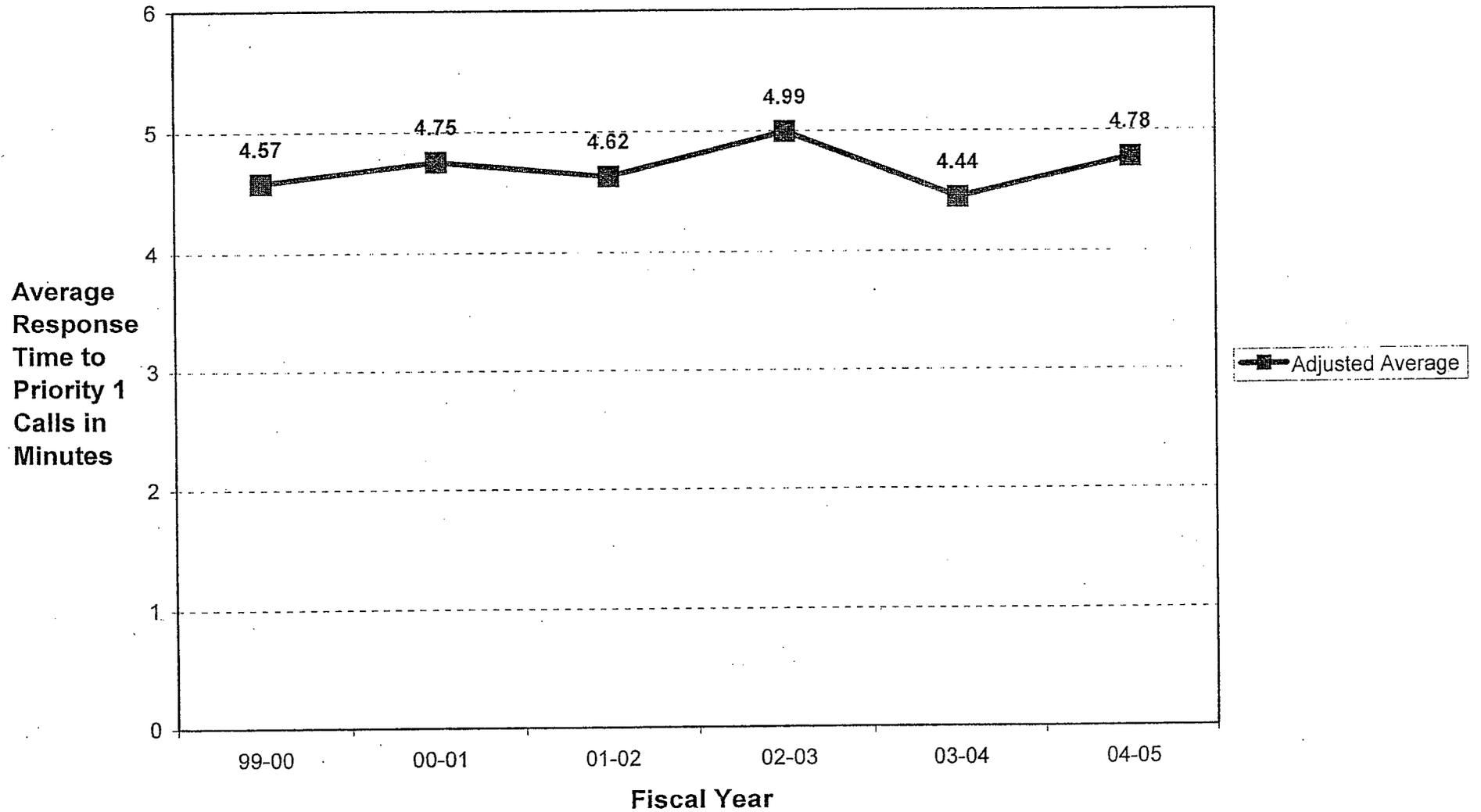
## Cost per Fire Department Response Over Time



# Fire Department Cost per Capita Over Time



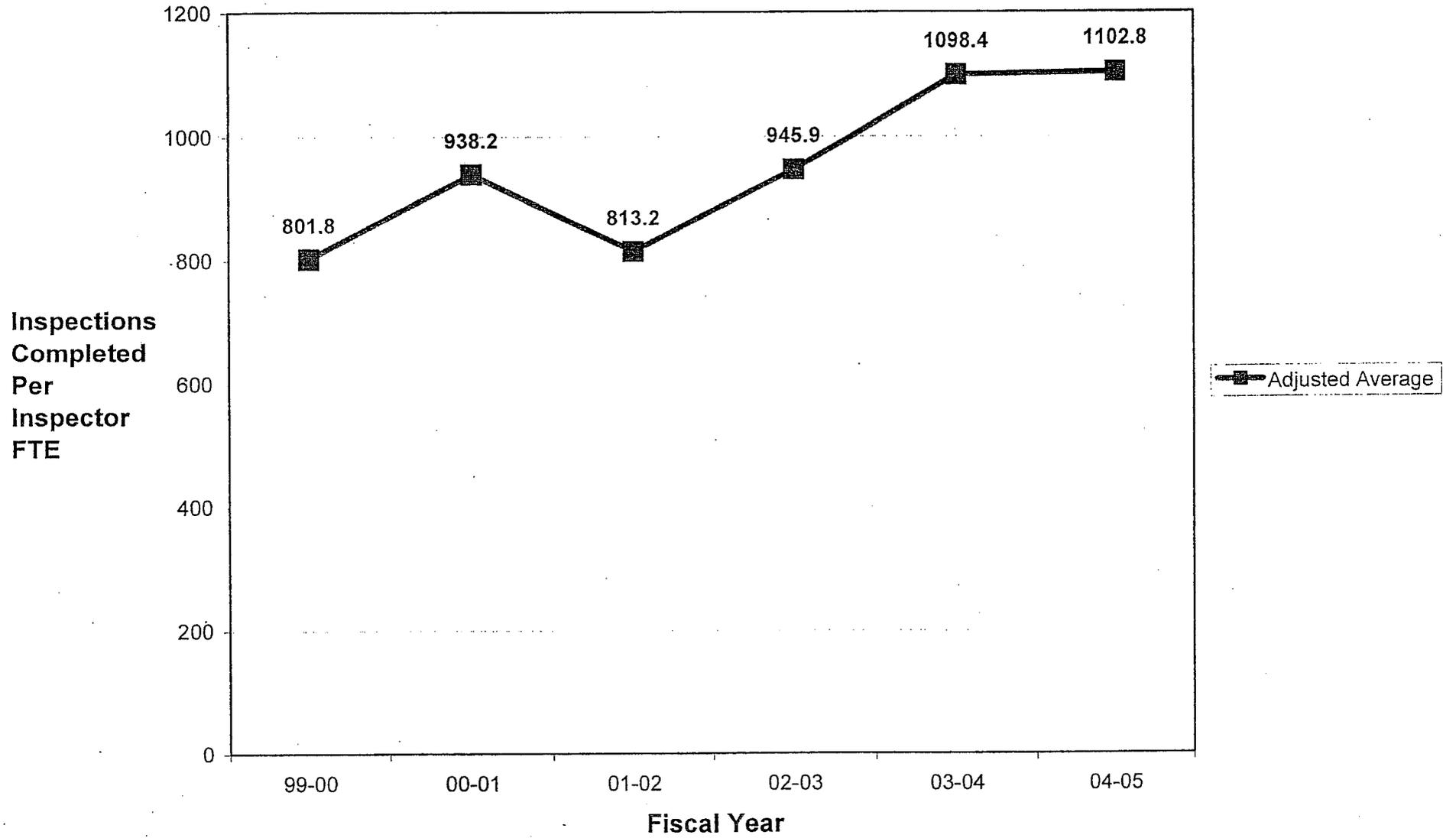
## Average Response Time to Priority 1 Calls in Minutes (Turnout and Travel)



# Inspections

- Fire Code Violations
- Fire Safety Complaints

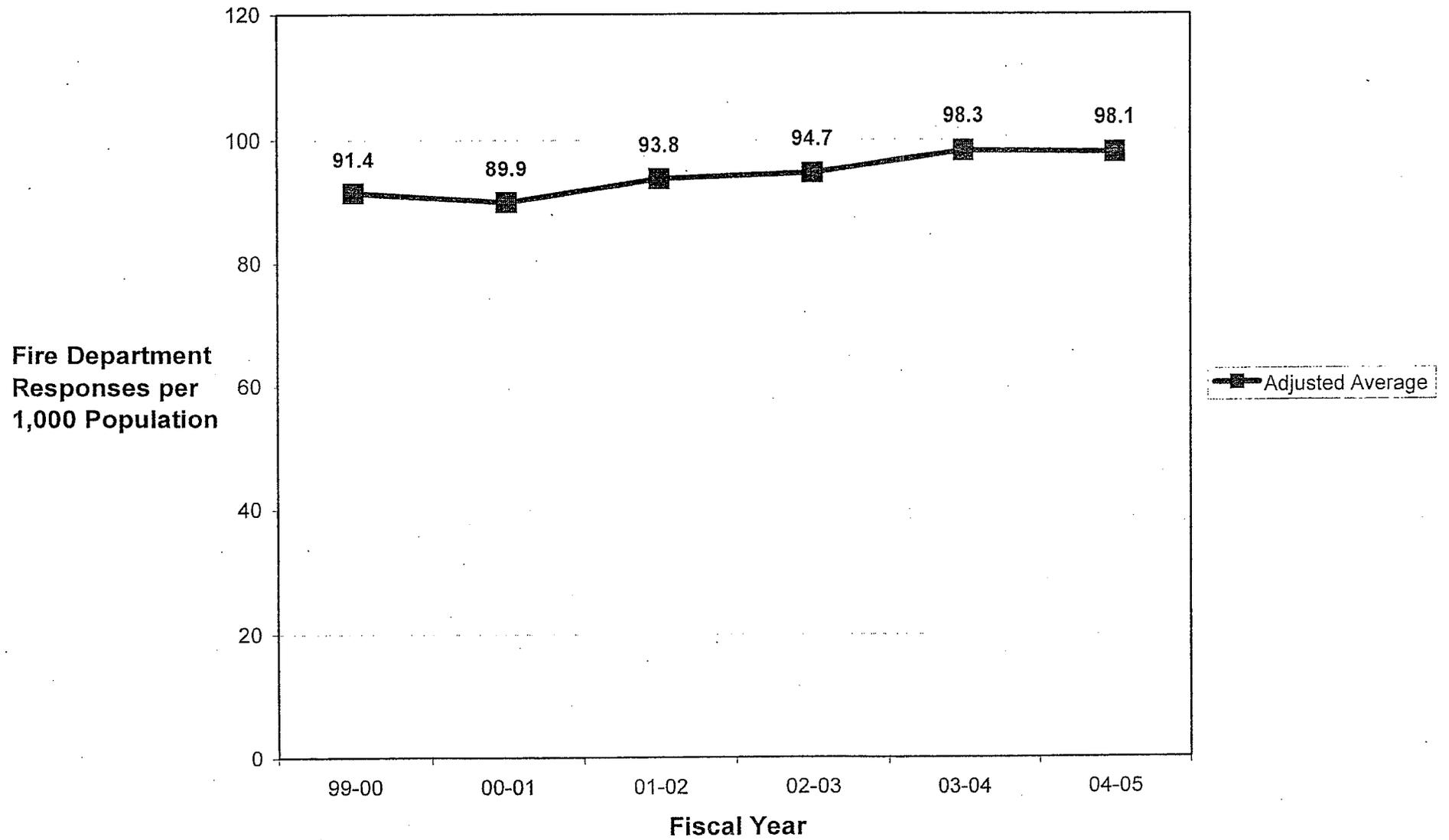
# Inspections Completed per FTE



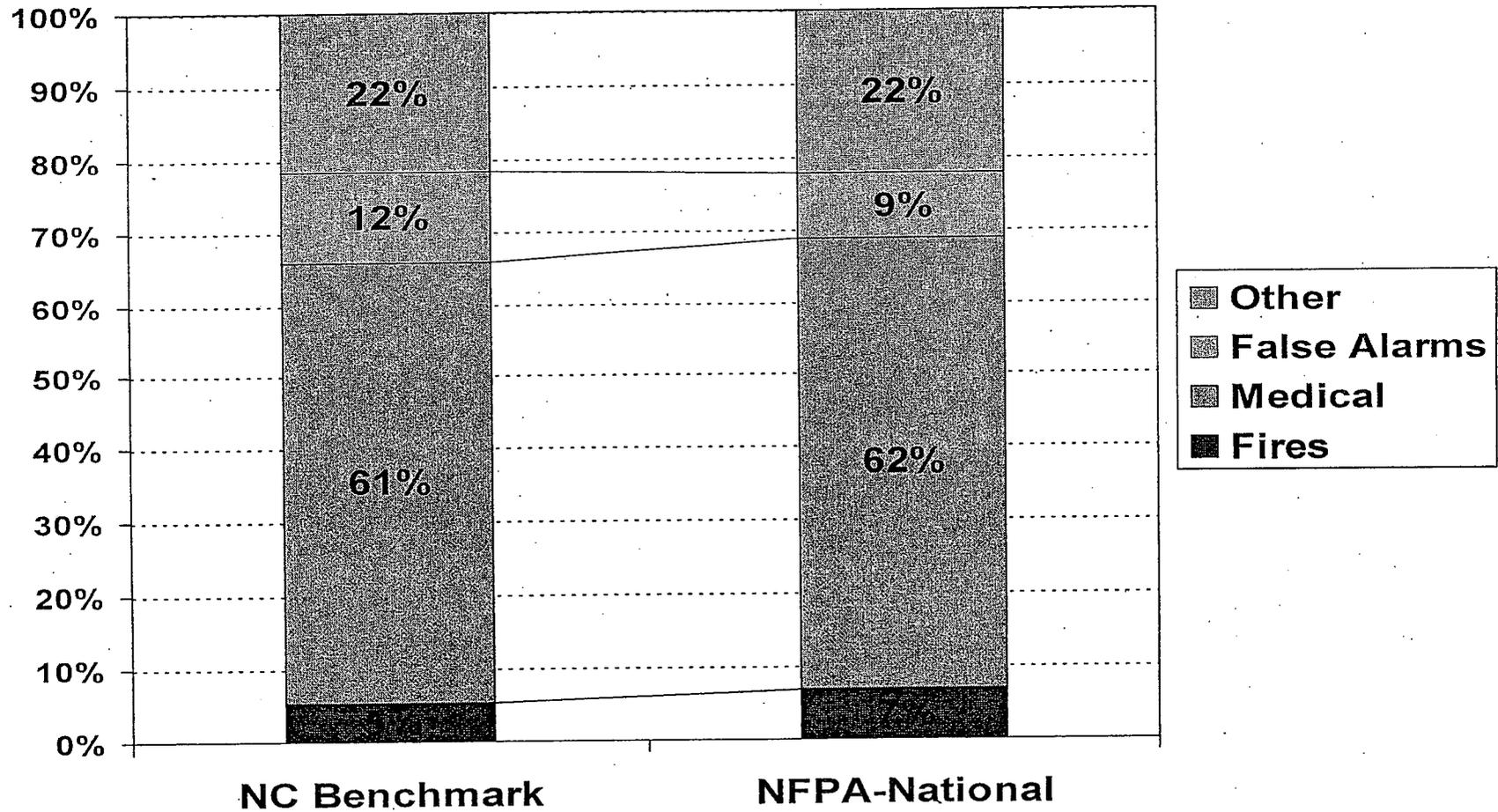
# **Fire Department Responses**

- Incident Rates
- Containment

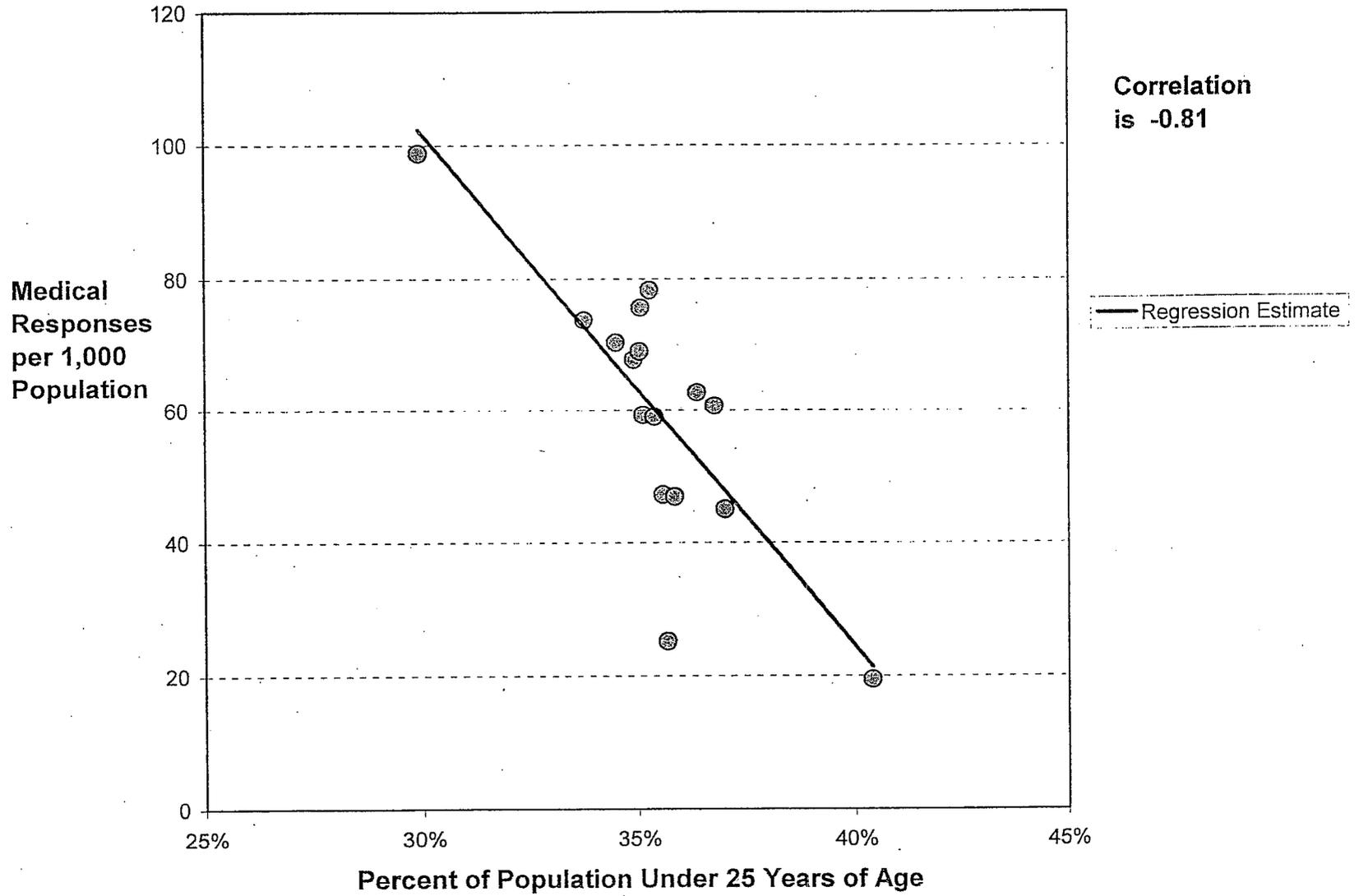
## Fire Department Responses per 1,000 Population



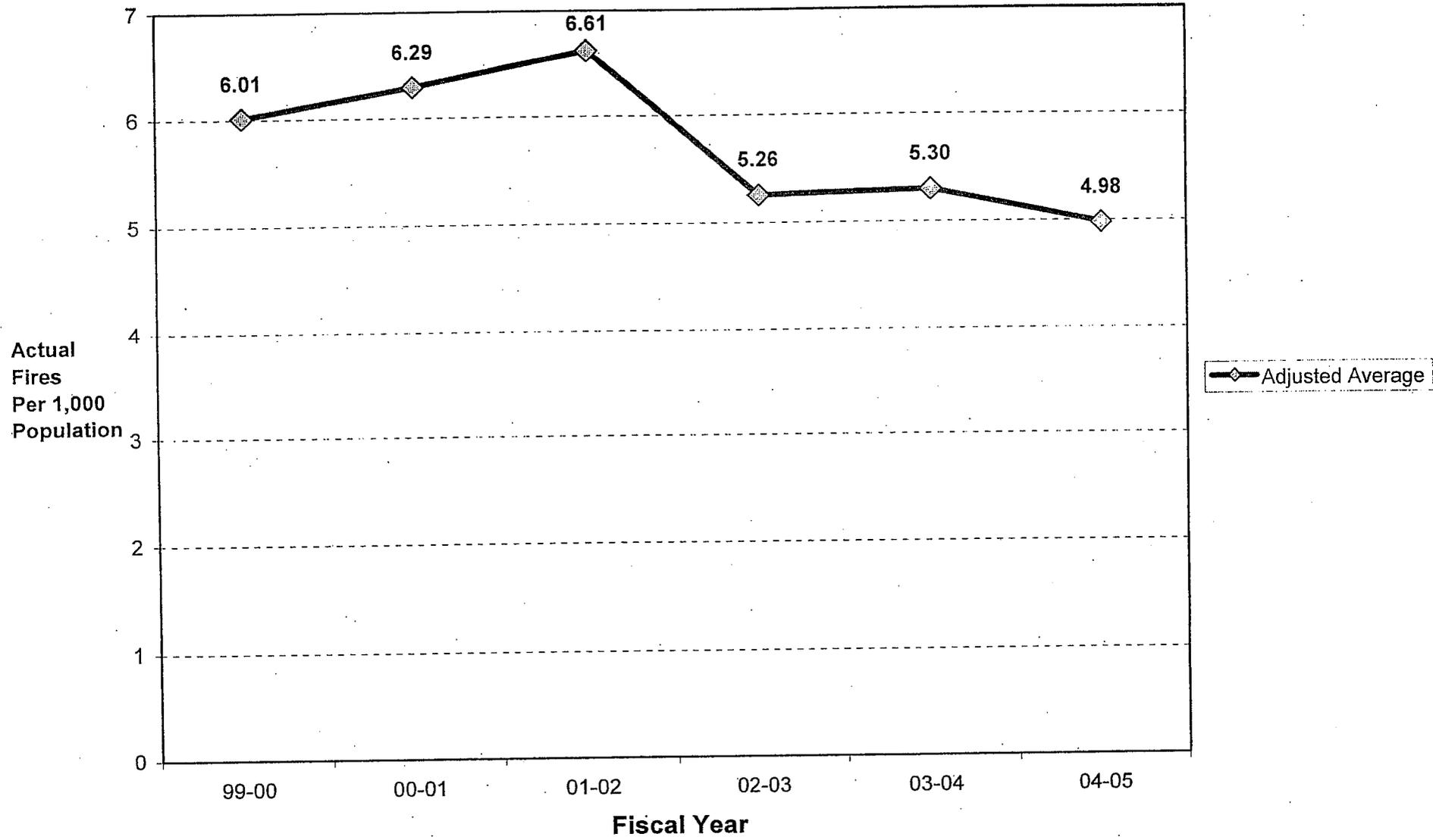
# Percent Distribution of Fire Department Calls



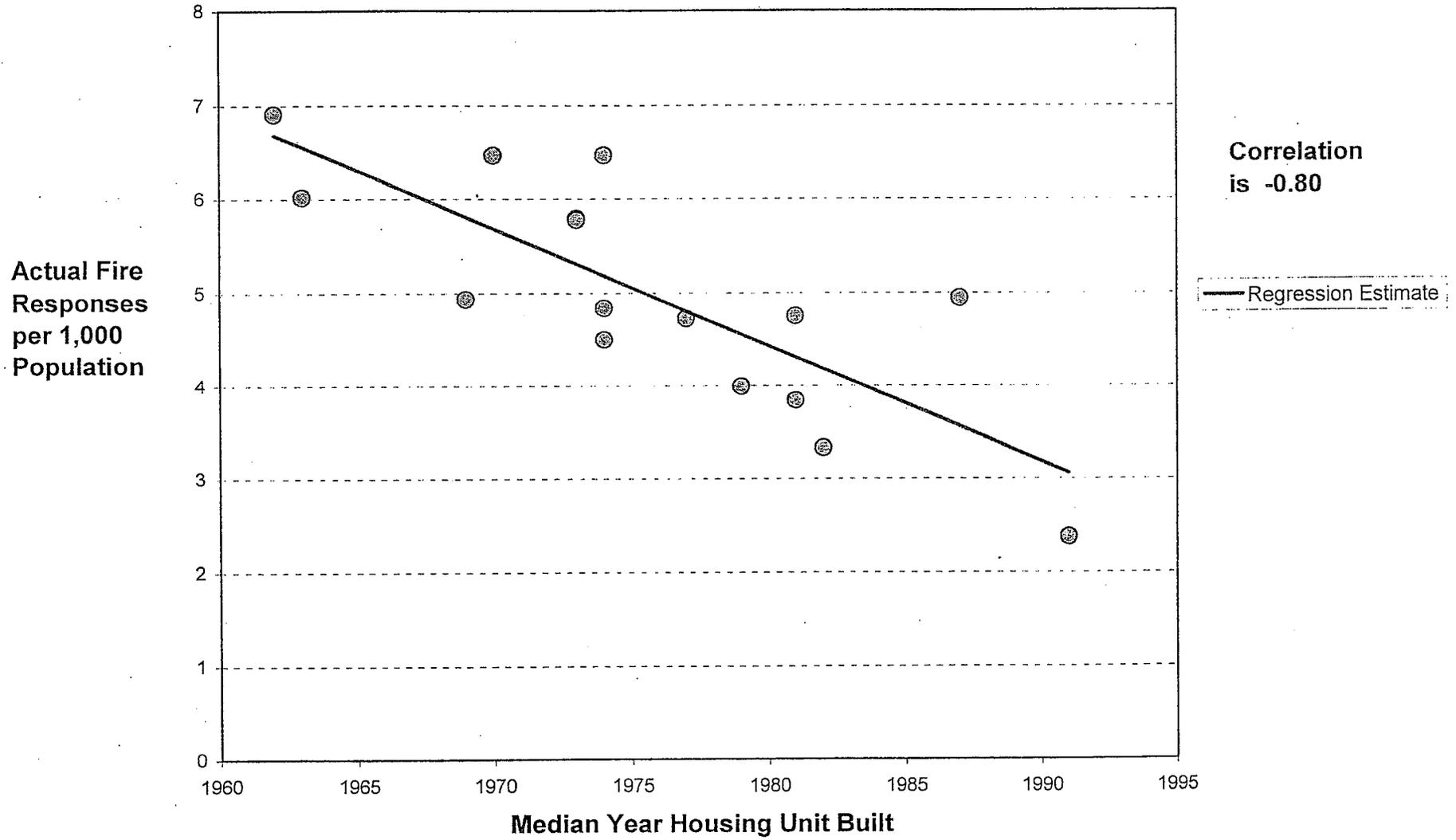
## Youth Population and Medical Responses per 1,000 Population



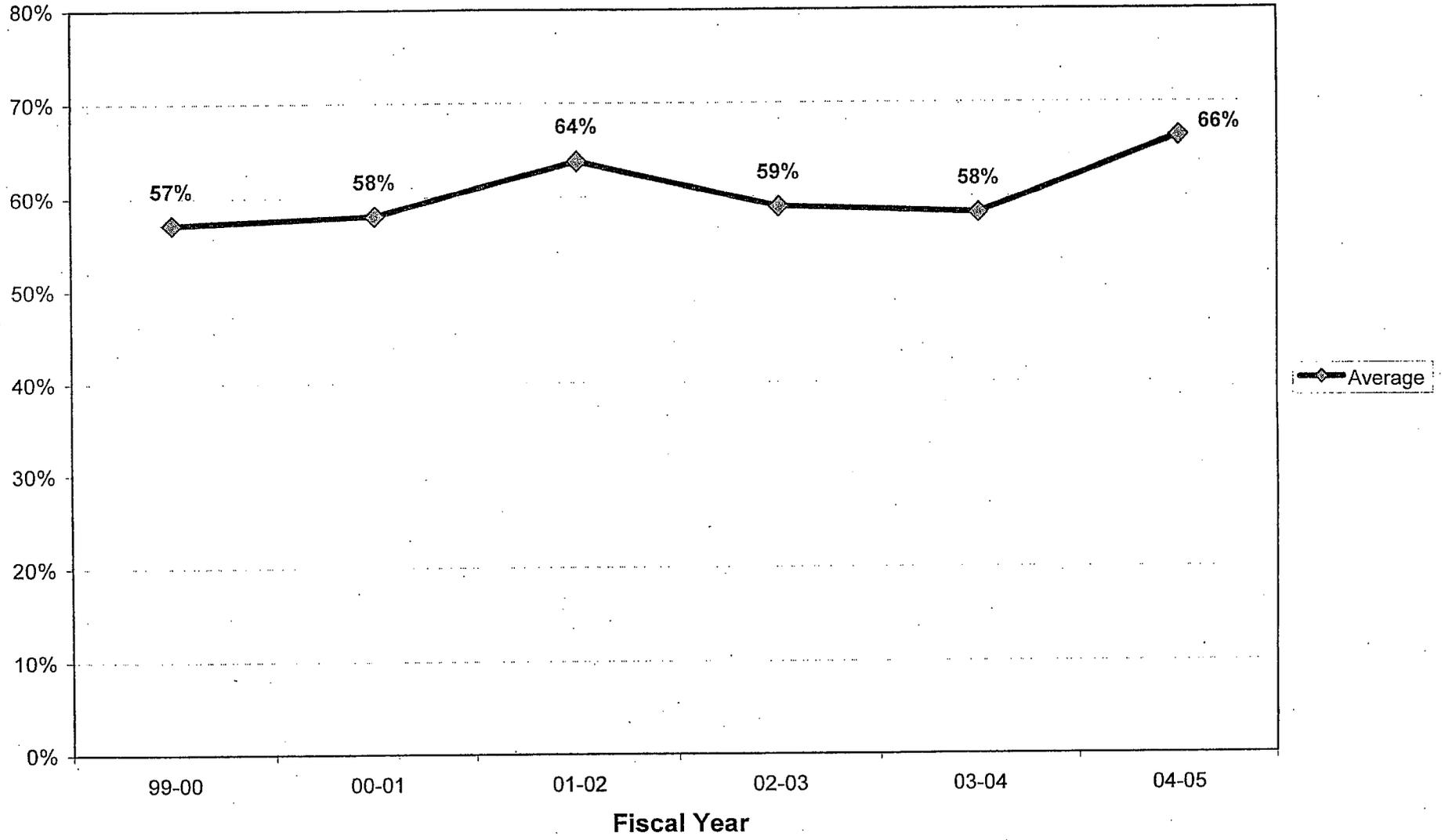
### Actual Fires Per 1,000 Population



# Age of Housing and Actual Fires per 1,000 Population



## Percent of Fires Confined to Room(s) Involved On Arrival



# False Alarms

# Distribution of False Alarms

## National Data from NFPA for 2004

